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## **CLAIMS**

## What is claimed is:

1	1.	A composition comprising an isolated bacterium belonging to	
2	the genus Dietzia an	d deposited with the American Type Culture Collection as	
3	Accession Number 1	PTA-4125.	
1	2.	The composition of claim 1, further comprising an animal	
2	feed.		
1	3.	The composition of claim 2, wherein the animal feed is	
2	selected from the group consisting of grain, hay, straw, silage, cornstalks, corn,		
3	corn meal, corn glutenmeal, soybean meal, soy flour, soybean mill feed, cottonseed		
4	hulls, oats, barley, hominy, cereal brans, rice mill by-product and mixtures thereof.		
1	4.	The composition of claim 1, further comprising a feed	
2	additive.		
1	5.	The composition of claim 4, wherein the feed additive is	
2	selected from the group consisting of vitamins, minerals, protein supplements,		
3	drugs, and mixtures thereof.		
1	6. ·	The composition of claim 1, wherein the composition is	
2	incorporated into a de	osage form selected from the group consisting of tablets,	
3	drenches, boluses, and capsules.		
1	<b>7.</b> .	The composition of claim 6, wherein the composition is	
2	incorporated into a ta	blet and further wherein the tablet further comprises a base, a	
3	disintegrator, an absorbent, a binder and a lubricant.		
1	8.	A method for treating Johne's disease, comprising	

administering to a mammal the feed composition of claim 1.

1	9.	The method of claim 8, wherein the mammal is a bovine.	
1	10.	The method of claim 8, wherein the method comprises oral	
2	administration of th	e feed composition.	
1	11.	A composition comprising a pharmacologically active dose of	
2	an isolated bacterius	m belonging to the genus Dietzia and deposited with the	
3	American Type Culture Collection as Accession Number PTA-4125, an active		
4	fragment thereof, a	protein secreted therefrom, or combinations thereof.	
1	12.	The composition of claim 11, wherein the composition is	
2	incorporated into a dosage form selected from the group consisting of tablets,		
3	drenches, boluses, and capsules.		
1	13.	A method of treating Johne's disease, comprising	
2	administering to a n	nammal the composition of claim 11.	
1	14.	The method of claim 13, wherein the mammal is a bovine.	
1	15.	The method of claim 13, wherein the method comprises oral	
2	administration of the composition.		
1	16.	A feed composition, comprising a bacterium of the genus	
2	Dietzia and an anima	al feed.	
1	17.	The feed composition of claim 16, wherein the animal feed is	
2	selected from the gre	oup consisting of grain, hay, straw, silage, cornstalks, corn,	
3	corn meal, corn glutenmeal, soybean meal, soy flour, soybean mill feed, cottonseed		
4	hulls, oats, barley, h	nominy, cereal brans, rice mill by-product and mixtures thereof.	
1	18.	A method of treating Johne's disease, comprising	
2	administering to a mammal the feed composition of claim 16.		
1	19.	The method of claim 18, wherein the mammal is a bovine.	

1	20. The method of claim 19, wherein the method comprises of all	
2	administration of the composition.	
1	21. A feed additive, comprising a bacterium of the genus <i>Dietzia</i>	
2	and a feed additive.	
1	22. The feed additive of claim 21, wherein the feed additive is	
2	selected from the group consisting of vitamins, minerals, protein supplements,	
3	drugs, and mixtures thereof.	
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1	23. A method of treating Johne's disease, comprising	
2	administering to a mammal the feed additive of claim 21.	
1	24. The method of claim 23, wherein the mammal is a bovine.	
1	25. The method of claim 23, wherein the method comprises oral	
2	administration of the composition.	
1	26 A composition commission a plantage of citation at the second cit	
2	26. A composition, comprising a pharmacologically active dose of	
	a bacterium of the genus <i>Dietzia</i> , an active fragment thereof, a protein secreted	
3 4	therefrom, or combinations thereof, such that the pharmacologically active dose is	
5	capable of reducing or preventing the symptoms of a disease or syndrome whose	
3	causative agent is a mycobacterium.	
1	27. A method of treating a disease or syndrome whose causative	
2	agent is a mycobacterium by administering to a mammal the composition of claim	
3	26.	
ï	28. The method of claim 27, wherein the mammal is a bovine.	
1	29. The method of claim 27, wherein the method comprises oral	
2	administration of the composition.	
1	30. A method of culturing bacteria belonging to the genus Dietzia	
2	comprising culturing the bacteria in a medium comprising Tryptose soy broth.	